*Toxicology*, 81 (1993) 239–240
Elsevier Scientific Publishers Ireland Ltd.



*TOXICOLOGY*

## VOLUME CONTENTS

*Volume 81 (1993)*

---

Exposure to 2,3,7,8-tetrachlorodibenzo-*para*-dioxin leads to defective dentin formation and pulpal perforation in rat incisor tooth (**A single dose of 1 mg to young TCDD "resistant" rats impairs growth of skull bones and teeth, possibly suggestive of induced vitamin A deficiency**)
by S. Alaluusua, P.-L. Lukinmaa, R. Pohjanvirta, M. Unkila and J. Tuomisto (Helsinki and Kuopio, Finland) ..... 1–13

Caveats regarding the use of the laboratory rat as a model for acute toxicological studies: modulation of the toxic response via physiological and behavioral mechanisms (**Rats respond to acute toxicity by lowering core temperature via physiological and behavioral mechanisms whereas man does not**)
by W.P. Watkinson and C.J. Gordon (Research Triangle Park, NC)..... 15–31

Developmental patterns of aluminum in mouse brain and effects of dietary aluminum excess on manganese deficiency (**Dietary Al can interact with Mn metabolism during development and also may exacerbate a marginal Mn deficiency**)
by M.S. Golub, B. Han, C.L. Keen and M.E. Gershwin (Davis, CA)..... 33–47

*meso*-2,3-Dimercaptosuccinic acid monoalkyl esters: effects on mercury levels in mice (**The monoesters were generally more potent on an equimolar basis than was meso-2,3,-Dimercaptosuccinic acid**)
by G.R. Gale, A.B. Smith, M.M. Jones and P.K. Singh (Charleston, SC and Nashville, TN)..... 49–56

Effect of different renal glutathione levels on renal mercury disposition and excretion in the rat (**Diminished kidney non-protein sulfhydryl levels enhance renal mercury toxicity, whereas increased ones mitigate the effects of the metal**)
by G. Girardi and M.M. Elías (Rosario, Argentina)..... 57–67

Mutagenicity of chrysene, its methyl and benzo derivatives, and their interactions with cytochromes *P*-450 and the Ah-receptor; relevance to their carcinogenic potency (**Enzyme induction and receptor interaction have no relevance to carcinogenicity**)
by Y-L. Cheung, T.J.B. Gray and C. Ioannides (Guildford and Alnwick, UK)..... 69–86

Book Reviews ..... 87–88

Relationship between the critical level of oxidative stresses and the glutathione peroxidase activity (**In cultured cells there seems to be an inverse relationship between susceptibility to tert-butylhydroperoxide and the enzyme activity**)
by O. Toussaint, A. Houbion and J. Remacle (Namur, Belgium)..... 89–101

Evaluation of the contribution of chronic skin irritation and selected compositional parameters to the tumorigenicity of petroleum middle distillates in mouse skin (**Chronic skin irritation may be a necessary but not sufficient condition for tumor development**)
by J.J. Freeman, T.M. Federici and R.H. McKee (East Millstone, NJ) ..... 103–112

Olfactory cytochrome *P*-450 immunoreactivity in mice is altered by dichlobenil but preserved by metyrapone (**It is concluded that dichlobenil-induced olfactory toxicity is cytochrome *P*-450 mediated**)
by E. Walters, K. Buchheit and J.A. Maruniak (Columbia, MO) ..... 113–122

Joint action of benzoic hydrazide and β-aminopropionitrile on *Xenopus* embryo development (**Evidence is presented to suggest that the two compounds act in a similar manner**)
by D.A. Dawson (Knoxville, TN) ..... 123–130

Direct effects of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin (TCDD) on human tonsillar lymphocytes (**Low density B-cells appear to be a sensitive cellular target to TCDD toxicity**)
by S.C. Wood, H. Gwang Jeong, D.L. Morris and M.P. Holsapple (Richmond, VA; Taejon, Korea and Boston, MA) ..... 131–143

Induction and inhibition of cytochrome *P*-450-dependent monooxygenases in hamster tissues by ethanol (**Ingestion of ethanol for several days has differential effects on cytochromes *P*-450**)
by T.-H. Ueng, Y.-F. Ueng, J.-N. Tsai, I-C. Chao, T.-L. Chen, S.S. Park, M. Iwasaki and F.P. Guengerich (Taiwan, R.O.C.; Frederick, MD and Nashville, TN) ..... 145–154

$Cd^{2+}$-induced c-*myc* mRNA accumulation in NRK-49F cells is blocked by the protein kinase inhibitor H7 but not by HA1004, indicating that protein kinase C is a mediator of the response (**Cd-induced oncogene expression appears to involve primarily an increase in cytosolic Ca**)
by N. Tang and M.D. Enger (Ames, IA) ..... 155–164

No effect of dieldrin on progesterone production in gilts (**Feeding of pigs with dieldrin has no effect on progesterone production**)
R. Kotonya and N.-E. Jensen (Geneva, Switzerland) ..... 165–171

Effect of chronic consumption of metabisulphite on the integrity of the rat kidney cellular system (**5 mg/kg daily for two weeks change several marker enzymes to indicate renal damage**)
M.A. Akanji, O.A. Olagoke and O.B. Oloyede (Ilorin, Nigeria) ..... 173–179

Effects of linoleic and oleic acid anilides on prostacyclin synthesis and fibrinolytic profile of human endothelial cells in culture: relevance to the toxic oil syndrome (**Fatty acid anilides have distinctive effects on prostaglandin synthesis**)
C. de Castellarnau, I. Pich, C. Chanquia, L. Vila, C. Lagunas, J. Fontcuberta and M. Rutllant (Barcelona, Spain) ..... 181–194

Evaluation of knit glove fabrics as barriers to dermal absorption of organophosphorus insecticides using an in vitro test system (**A comparison between different materials**)
V.B. Keeble, L. Correll and M. Ehrich (Blacksburg, VA) ..... 195–203

Developmental toxicity of methanol in whole embryo culture: a comparative study with mouse and rat embryos (**Mouse embryos appear to have a greater intrinsic sensitivity to the developmental toxicity of inhaled methanol**)
J.E. Andrews, M. Ebron-McCoy, T.R. Logsdon, L.M. Mole, R.J. Kavlock and J.M. Rogers (Research Triangle Park, NC) ..... 205–215

Repeated exposure to the polychlorinated biphenyl (Aroclor 1254) elevates the basal serum levels of corticosterone but does not affect the stress-induced rise (**Elevations in basal serum level of corticosteroids was not accompanied by changes in adrenal gland morphology**)
D.B. Miller, L.E. Gray, Jr., J.E. Andrews, R.W. Luebke and R.J. Smialowicz (NC, USA) ..... 217–222

Contents of Journals Relating to Toxicology ..... 223–231
Subject Index Volume 81 ..... 233–235
Author Index Volume 81 ..... 237
Contents Volume 81 ..... 239–240